



MESSAGE FROM THE PRESIDENT



Dear Fellow Engineers,
Greetings!!

Hope you must be doing well in your professional works. The month of May was very hectic at IAStructE.

This month Mr. Mahendra Raj a legendary structural Engineer and founder president of IAStructE left us for heavenly abode on May 8 at the age of 97 years. It came as a shock to the entire engineering fraternity as he was regularly active till end. He was a role model and mentor to an entire generation of structural engineers in India. He was a very innovative & creative structural engineer with many firsts in India. He was a structural engineer par excellence and a great human being. IAStructE was his brainchild. He cared and nourished IAStructE like his child in its formative years. We were fortunate to get his guidance and inspiration at IAStructE. He attended our last meeting on 9th March 2022. Engineer's bill was very dear to him. He fought for it till end, we at IAStructE will continue pursuing this for the betterment of civil & structural engineers. Many activities & programs are being planned by IAStructE to celebrate his life & works. Soon you will get intimation regarding it.

As you know our special membership drive is on and it will end this month end. You may spread the word amongst your structural engineering colleagues to take advantage of this. This month an online Town hall Meeting was organised to address the queries of members & other engineers related to IAStructE objectives, membership & other professional matters. It was an extremely useful event. Its recording is also available on YouTube. Two webinars are scheduled in the month of June. Details are given in this newsletter. I encourage you to join it.

Structural Engineering Digest (SED) April-June issue on the theme "Precast Segmental Bridges – State-of-the-Art" with Mr. Alok Bhowmick as guest Editor is in the advance stage of publishing and likely to be released by the end of June. July-September SED issue is dedicated to the interesting theme of "Dams & Hydraulic Structures" with Dr. Shilpa Pal as guest editor. You may contribute your technical papers & case studies for consideration.

Gradually IAStructE is expanding its reach and impact. Your partnership in this journey is highly valuable. Do send your suggestions.

Best regards

Manoj Kumar Mittal
President-IAStructE

FROM THE EDITOR'S DESK



Warm greetings to all the readers!!

This April issue is dedicated to our beloved founding president Shri. Mahendra Raj ji, reminiscing his eminent works and association with structural fraternity. The dissemination activities such as webinar details and Town Hall meeting conducted for creating awareness about the membership benefits and structural engineering profession as a whole are also covered. Request all our readers to follow, subscribe and like IAStructE events on all digital platforms.

Thanks & Regards,

Dr. Visalakshi Talakokula

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Obituary: Shri Mahendra Raj, Founder President, IAStructE

Shri Mahendra Raj, Founder President IAStructE has departed for heavenly abode on 08 May 2022 at the age of 97 years at his residence in New Delhi. He was the founder president of IAStructE executing his duties till 2010. This association was his brainchild which he cared and nourished like his own child, till his last breath.

Shri Mahendra Raj was born in November 11, 1924. He graduated in Civil Engineering in 1946 from Lahore, did MS in Structures in 1956 from Minnesota, and CE in Structures from Columbia, New York in 1959. He started his career with Punjab Public Works Department as an Assistant Engineer in 1946, worked on the Chandigarh project since its inception, and later on the Structural Design of High Court and Secretariat Buildings in Chandigarh Architecturally designed by Le-Corbusier, later promoted as an Executive Engineer in 1953. He went to USA for further studies and work experience from 1955 to 1959. On his return he resigned from the Government service and started his independent practice as a civil engineer in 1960.



November 11, 1924 - May 08, 2022

Shri Mahendra Raj's 60 years of service to the building profession has shown an uncommon inventiveness and willingness to experiment with new concepts. He was considered as one of the most inventive engineers in the country and recognized as the master of Structural Art. He has worked with some of the leading and famous Architects of the World such as Le-Corbusier, Minoru Yamasaki, Louis Kahn, Charles Correa, B V Doshi, A P Kanvinde, J A Stein and Raj Rewal. He is internationally acclaimed for his innovative structures, some of which are one-of-a-kind. He was recognized as a master of structural art - a term that hadn't even been coined when he began his career in independent India.

The book "The Structure-Works of Mahendra Raj", Park Books, 2016, 428 pp. (by Vandini Mehta, Rohit Raj Mehndiratta, and Huber, A.), features twenty-eight of Shri Mahendra Raj's buildings in detail through rich photographs and color reproductions of archival plans.

Shri Mahendra Raj has made extensive contributions to the development of the profession of Consultancy in the country. He was President of the Association of Consulting Engineers India (ACEI) for more than a decade (1983-1996) before it merged with the National Association of Consulting Engineer and was renamed Consulting Engineers Association of India (CEAI).

Shri Mahendra Raj was very active in International Federation of Consulting Engineers (FIDIC), since India became a member in 1981. He was member of North and South Committee on Needs and Resources (NASCONAR) set up in 1981-82 and later of the Client Consultant Relationship Committee (CCRC) for many years. Shri Mahendra Raj was also member of a high-powered committee set up by the Ministry of Urban Development and Poverty Alleviation of the Government of India to draft a Comprehensive Legislation to Regulate and Control the Activities of Builders and Developers.

Shri Mahendra Raj's sad demise leaves behind a void which those in the world of structural engineering will find difficult to fill. He was a colossus on the structural engineering and consulting engineering landscape, respected and admired by one and all, for the qualities of head and heart he was blessed with. His erudition in profession and his courteous behaviour were particularly endearing for all those who came in contact with him. Despite his exalted status, he was an active grass-root member of our fraternity and always in the forefront, whenever needed. Few people could articulate issues the way he did. It is difficult to overstate his fervor and solicitude for IAStructE. It is a great loss for all of us. His absence will be deeply felt in our fraternity.

May his soul reach the supreme abode and pray the Almighty for granting fortitude to his bereaved family to bear this irreparable loss.

Testimonials received from some of the Members of IAStructE

Mr Mahendra Raj's sad demise leaves behind a void which those in the world of structural engineering will find difficult to fill. He was a colossus on the structural engineering and consulting engineering landscape, respected and admired by one and all, for the qualities of head and heart he was blessed with. His erudition in profession and his courteous behaviour were particularly endearing for all those who came in contact with him.

On a personal note, I had the good fortune and the rare privilege of knowing him for last two decades, when I became active in Indian Association of Structural Engineers, of which he was the founder. He was particularly fond of me and had at every stage of my own professional journey held my hand and guided me as a true mentor and well-wisher.

His demise leaves not only his family in grief, but a large number of others who may never have had the opportunity to meet him are also saddened by the passing away of a towering personality, known for his engineering acumen, vision and fairness.

I think the greatest tribute to Mr Mahendra Raj Sir will be to follow his footsteps in life, to fulfil his dreams and visions in the professional associations he nurtured.

In another sense, he will continue to live beyond the mortal existence in physical form through his legacy.

May God bless his soul with eternal peace.

Alok Bhowmick, *Immediate Past President IAStructE, Noida*

A great personal loss. Mahendra Raj ji was a doyen of structural engineering who provided leadership and mentorship to the profession for seven decades. An extraordinary person, a great structural engineer, a leader and a mentor, courteous and polite to the hilt. I was personally a privileged beneficiary of his affection. Such persons traverse the canvas of life only rarely. His was a life worth celebrating. Truly the roof has blown away from above us. Mahendra Raj ji will remain with us despite his passing. May his soul rest in peace.

Prof. Prem Krishna, *Governing Council member IAStructE, Gurugram*

We have lost our mentor and Doyen. He gave so much to the profession and to the development of the art and science of Structural engineering that each of us will always owe him a great debt of gratitude. His influence and mentoring of most of us has left its mark in the values, ethics and conduct that we imbibed by being in his midst. He shall forever be celebrated as one of the most creative, bold, and sensitive Structural engineers of our times. Salute Mahendra Raj ji u live on in each of us. RIP

Dr Harshavardhan Subbarao, *Governing Council member IAStructE, Mumbai*

I knew Mahendra Raj ji only through meetings on line. But those few moments were good enough to understand what a fine human being he has been. His passion and enthusiasm towards structural engineering was exuberant in each meetings he participated. May his soul rest in peace and also almighty give strength to his family to bear this loss.

V N Heggade, *Governing Council member IAStructE, Mumbai*

Mr. Raj was indeed a great structural engineer who inspired the whole fraternity. He had a vision to take the practice to the next level and he not only thought of a vehicle to further it, but also implemented it by creating this Association.

I was fortunate to have known him since the mid 90's when I had returned from the US. We had several technical discussions and later when the Association was formed he invited me to be one of the first members, which I readily accepted. He supported me in all my efforts to help the organization, and stood by me when I needed his help.

We will miss this great son of India for he changed the way structural engineers are viewed in society by giving them the visibility they much needed. He was always there for anyone who was victimized by the system--the work is not over; the Association is committed to carry the baton ahead.

Once again I pay my respects to the departed soul.

Vipul Ahuja, *Governing Council member IAStructE, Delhi*

The passing away of the legendary Mahendra Raj Ji, the doyen of structural engineering, on 8th May, 2022 is not only a great loss to the profession of structural engineering as a whole but also to the nation in general. Also, to us, the members of the organization of the Indian Association of Structural Engineers for which he was the founder President we would be missing him again and again through each & every moment of a second.

Tears roll upon my eyes as I have to write this painful memoir of our greatest ever structural engineer who had walked upon the heart & soul of our motherland. As a resident of Kolkata, I had known Mahendraji through online mode only but today I would like to share one of my meetings with him which I did not know would be the first & the last one. To be very precise I still remember the date 7th December 2019 floating before my eyes now, when I was invited to join the 23rd Annual General Body Meeting of Consulting Engineers Association of India in New Delhi at CEAI's Vasant Kunj office at 12 Noon. Mr. Raj who was also the Chairman Emeritus of CEAI was present at the meeting presided by Mr. Amitabha Ghoshal and I had the opportunity to meet him at the lunch where Mr. Ghoshal introduced me to him. Mr. Raj suggested that I should visit the Kiran Nadar Museum of Art, South Court Mall, Saket, Saket District Centre, New Delhi where his prominent work like Hall of Nations, Akbar Hotel, Srinagar Stadium, Vidhan Bhawan, Hindon River, Tagore Hall, Sardar Patel Stadium, NCDC Building, and similar structures and their detailed drawings were being displayed. I thanked God for the happy ending but I never knew that it was the first & also the last meeting with him

Prof. Mainak Ghosal, *Governing Council member IAStructE, Nadia (WB)*

It is a great loss to the Structural Engineering Community. May his soul be blessed in Heaven. Our heartfelt condolences to his family and friends.

I was fortunate to have correspondence with him, while writing an article about him a few years back, which was reprinted in SED Jul-Sep 2020, Volume 10 Issue 3 also.

Dr. N. Subramanian, *Honorary Fellow, IAStructE, USA*

If you are a structural engineer and have not yet read it, I commend to you a book called “The Structure: Works of Mahendra Raj” by Vandini Mehta, Rohit Raj Mehndiratta and Ariel Huber, Park Books 2016. The middle author Rohit is an architect, and the youngest of Mahendra Raj’s three children. Mehndiratta is the family name, which Raj never used. We called him Raj, as he wanted, never Mahendra, and my guess is that the single, simple Raj is a relic of his US days, where either of his other names would have been too much of a mouthful for Americans.

The book is a very well-produced compilation of photographs and drawings of Raj’s amazing body of work. In the text what I found particularly rewarding were Raj’s own account of his life, and his extended interview with Balakrishna V Doshi. They reveal much about the man, and how he came to be the legend that he is.

What comes through very clearly is his passion for structures. His first love was mathematics, circumstances drove him towards engineering. Once he was there he discovered the joy of finding elegant solutions to design problems, the more difficult the better—the challenge that much more exciting.

He was what a structural engineer should be: a designer, turning over concepts in his mind to find, always searching for the best solution. He enjoyed working with architects, often improving their design. In other words he was always part of the design team. Understanding what was wanted and subscribing to it came first. Calculations might follow, or run concurrently, but the focus was always the design and how to make it better. His life is also a lesson in the pursuit of excellence. It doesn’t come unbidden. You have to work for it. It is not so much flashes of genius as a struggle to keep searching, to keep looking for what works best.

Civil engineering is a vast discipline. It concerns itself with the entirety of the built environment. While fully respecting Nature, its purpose is to deliver construction that improves the daily lives of citizens. Construction may be of anything, from a system of drains, to water supply and sewage collection and disposal, to roads and railways, tunnels and bridges, jetties and docks, and of course buildings for a variety of purposes, from cathedrals, mosques and temples to the smallest beach hut. And of course in each case there is first design, and then construction, and then maintenance. With advancing technology and increasing size the parent discipline of civil engineering has broken up into specializations. Of these the most dramatic breakaway has been architecture which now barely sees itself as one corner of civil engineering. Other specializations are transport engineering, bridge engineering, marine engineering and so on. Often even within a specialization there is a further split between those concerned with design and those concerned with construction, the execution of what is designed.

We need to recognize that not all these split-offs work well in isolation. Each needs to work with one or more of the others to deliver the best results. In particular for design to work well it must concern itself with and fully address the problems of execution.

The worst split-off of course has been between architects and structural engineers. Earlier a single person was responsible for the totality of a project, including architecture, engineering and supervision of construction. All the wonderful buildings we have from more than two centuries ago are, as far as we know, the work of a single mind. In recent times too, some of the most original and exciting work has been by individuals who combined in themselves both architecture and engineering in a single person: Calatrava, and earlier Nervi, Candela and others.

Mahendra Raj was a structural engineer. But from his works you can see that he had the sensitivity of a designer alert to the aesthetic content of his work. He was among the kindest people I know—we were partners for five years, until we split amicably because he wanted to move to Delhi and I remained in Mumbai. It was this gentleness and lack of ego that facilitated his work with architects, starting with Le Corbusier, whom he was able to persuade to accept a better solution. This collaborative spirit, and the relentless search each time for what is the best solution with an attention to aesthetics, is what finally led to his body of remarkable work.

Shirish B. Patel, *Founder member and Fellow IAStructE*

Very sad. He was a great friend, philosopher and guide. I had very close association with him since the 1980s and later in various professional bodies.

Despite the difference in age, merit and qualification where I placed myself much lower than him, he always gave due consideration and affection. He was a versatile personality and will be remembered always by one and all.

His departure is a great loss to his family, friends, well-wishers, the profession, the society and the nation at large. He always worked for the cause of engineers particularly structural engineers.

The void created by his departure can never be filled. My heartfelt condolences. May God grant Nirvana to his soul.

O. P. Goel, *Fellow IAStructE, Delhi*

We have lost a great inspiring eminent engineer of this century and symbol of Self Confidence. He was having kind of passion in structural engineering and enhancing the self-esteem of structural engineers throughout his practice. He not only sensitised the government regarding practicing standards in engineering profession but all engineers of this nation.

Indeed, he is a complete man by his virtue and achievement in profession and lived long too.
We pray almighty may this great soul rest in peace

Sanna Ratnavel, *Fellow IAStructE, Madurai*

As an young Engineer doing research at Roorkee, I used to read about this great designer – structural Engineer. Whenever I was in Delhi, Pragati Maidan, the Hall of Nations was my admiration of this man who designed it as a precast concrete wonder. These were in the sixties. Mahendra Raj was a good person to hear to at visits, committee meets at CSIR-SERC.

Later I came into direct contact with him as the founder Secretary General of Indian Concrete Institute, where he was Vice President and Later President. The interactions grew stronger, so did personal relationship. No doubt he was 10 years senior to me and gave him that respect. I had much to emulate from him.

When he founded IAStructE, I joined in as the founder member. I was Chairman for TN for long time at IAStructE.

Our last meeting was at Delhi in 2007, when he honoured me at the Silver Jubilee of Indian Concrete Institute.

May his soul rest in peace.

Let his legacy enthuse us.

Zacharia George, *Fellow IAStructE, Chennai*

WEBINARS / EVENTS CONDUCTED

1. TOWN HALL MEETING

An online Town Hall Meeting was organized on 28 May 2022. The aim of the Town Hall meeting was to address the queries regarding benefits of membership, issues related to professional matters, i.e., registration, Licencing, Engineer's Bill, Structural Stability certificates and to inform about the importance of structural Engineering as a career & setting up of independent professional practice. The queries asked by the participants on the various issues were answered by the following eminent panelists.

- ★ Mr. Manoj Mittal, President, IAStructE
- ★ Prof. Mahesh Tandon, Past President & GC member, IAStructE
- ★ Mr. Alok Bhowmick, Immediate past President, IAStructE
- ★ Dr. Abhay Gupta, Honorary Treasurer IAStructE
- ★ Mr. Vipul Ahuja, GC member, IAStructE

The event was appreciated by all the participants and desired that IAStructE should conduct this type of Town Hall Meet at regular intervals of time. The video of the Town Hall Meet is made available at the YouTube channel of IAStructE for the benefit of the stakeholders who couldn't attend the event. This can be viewed from the following link: <https://youtu.be/FaOpf--4fqc>



Fig. 1. Glimpses from the Online Town Hall Meeting

2. IAStructE DTU Student Chapter Activity

Delhi Technological University in collaboration with IAStructE DTU Student Chapter organized a three day training program for NDMC Engineers on Structural Safety Audit to improve Resiliency of Life Time Buildings and upcoming construction during 25th – 27th May 2022 at DTU Campus. The lectures delivered by Mr Manoj Mittal, President IAStructE, Ms Sangeeta Wij, GC member IAStructE and Dr. Shilpa Pal, GC member IAStructE and Mentor, DTU Student Chapter.

FORTHCOMING EVENT

Event	Topic	Speaker	Date & Timing
Webinar	Structural Engineering in Tall Building Registration link: https://us02web.zoom.us/webinar/register/WN_GEWYyFjLTAmEOubX0tHueQ	Mr. Abhijeet Kulkarni Partner & Director – Structures Burohappold	11 th June 2022 at 04:30 PM (IST)
Webinar	Achieving Sustainability through Modern Methods of Construction and Low Carbon Technologies Details shall be announced shortly	Mr. David John Varghese Senior Engineer Bridge WSP, UK	18 th June 2022 at 04:30 PM (IST)

CROSFALL (Confidential Reporting of Structural Failures and Lessons Learnt)

IAStructE is starting a unique quarterly newsletter "CROSFALL" (Confidential Reporting of Structural Failures and Lessons Learnt), where the reporter's name and identity as well as the project name, location and identity will not be divulged. IAStructE has developed a multi layered robust mechanism to keep the identity of the reporter & Project confidential.

The objective of this newsletter is to share lessons learnt from "structural failures" or "near misses" or even "concerns" and help to prevent / mitigate future catastrophic failures by providing insight into how safety issues occur and spurring the development of safety improvement measures.

The poster giving more details is attached herewith for your kind perusal. Interested Professionals may visit the following link to get more information regarding procedures and to submit the report about structural safety issues related to any type of structures: www.iastructe.co.in/crosfall.php



CROSFALL

(Confidential Reporting of Structural Failures & Lessons Learnt)

A Quarterly Newsletter of Indian Association of Structural Engineers

INTRODUCTION

CROSFALL is a unique newsletter created by Indian Association of Structural Engineers (IAStructE). Its purpose is to share lessons learnt from structural failures, near-misses and safety concerns. CROSFALL has a confidential reporting system, which allow safety issues to be reported by professionals, without exposing their identity and without creating concerns in areas like co-worker relations, client loyalty, or insurance. Any identifiable details, such as a project, product, individual or organisation, will remain completely confidential to CROSFALL editorial team. Reporters' personal information will be collected to only verify the contents of the report, and to communicate with the reporter if necessary, but this will also remain strictly confidential.

The newsletter will report only safety related issues with the objective to learn lessons from such failures and to help prevent future structural failures, by providing insight into root causes of such failures and spurring the development of safety improvement measures.

CROSFALL team will depend on professionals to submit reports, whenever they can share their concerns about what they see around or what they experience on any real-life projects. Anyone involved in the civil engineering industry is welcome to submit a report. The more reports submitted, the better CROSFALL can identify and quantify safety issues across the industry. This will help the entire industry to learn lesson from CROSFALL publications.



WHAT CAN BE REPORTED?

CROSFALL welcomes reports about structural safety issues related to all types of structures (i.e. buildings, bridges, tunnels, industrial structures etc.) in the built environment. The reporting can be related to:

- Structural failures,
- Poor Design and Detailing, Lack of Seismic Safety in planning
- Safety concerns about high risk erection schemes at Site
- Safety concerns on Temporary Works
- Near misses, or observations relating to procedures followed at site, which may lead to failures or collapses.

Reports do not have to be about current activities so long as they are relevant. Small scale events are equally important - they can be the precursors to more major failures. Report might relate to a specific experience or it could be based on a series of experiences indicating a trend. No concern is too small to be reported and conversely nothing is too large. Reports should aim to include information that will help others to learn from the safety issue identified.



For more details and to submit the report please go through the following link: www.iastructe.co.in/crosfall.php

For further query you may contact iastructe.crosfall@gmail.com

Message from IAStructE Social Media & Digitization Committee

Let's get **"DIGITIZED"**

With all new look of our website and media handles, please follow us on all major media platforms. For joining us, below mentioned links to be pasted in browser. Let's join hands together to promote the profession of Civil Engineering.

1. on **TWITTER** as **IAStructE**: - <https://twitter.com/iastructe>
2. on **Facebook** as **IAStructE**: - <https://www.facebook.com/IAStructE-100114022302316>
3. on **LinkedIn**: - The group is defined as Indian Association of Structural Engineers-IAStructE
<https://www.linkedin.com/groups/6646248/>
4. on **YouTube** as **IAStructE Webinar**:- Subscribe and press bell icon
https://www.youtube.com/channel/UCvv7ojXO9Dxq1WtP_yHZTKw

MEMBERSHIP DRIVE

IAStructE Governing Council has decided to start the membership drive for a short duration. During this period Structural Engineers may apply for IAStructE Membership as per eligibility without paying the Processing Fee. The poster giving more information about the membership drive is attached herewith for your perusal. Interested structural engineers may also visit our website <https://www.iastructe.co.in/> for more information about the association and to visit the following link to get more information about membership requirements: <https://www.iastructe.co.in/membership-grades.php>.



Indian Association of Structural Engineers

ALL INDIA MEMBERSHIP DRIVE 2022

Till 30th June 2022

LIMITED OFFER

Hurry Up now to join IAStructE as Fellow/Member/Associate Member/Student Member
*Processing fee waived

About IAStructE

The Indian Association of Structural Engineers (IAStructE) is a purely professional learned society devoting all its activities to development of the Structural Engineering profession in India. It has no commercial aim or objective. Its membership is restricted to Structural Engineers with proven competence and credibility, in the engineering profession in India. The aim of the Association is to exchange knowledge and to advance the practice of structural engineering worldwide in the service of the profession and society.

Benefits of joining IAStructE

- ✓ Membership of IAStructE is a public acknowledgement of your holding a recognized educational qualification, adequate experience and competence to practice the profession of Structural Engineering in India.
- ✓ By joining the Association, you will be able to network with many engineering specialists and committed experts having a vision of sustainable future for Structural Engineers.
- ✓ Membership of IAStructE enables you easy and convenient access to continuing education courses, seminars, workshops, technical lectures, etc. to keep you abreast of the advancements taking place the worldover in the practice of the profession.
- ✓ The various professional activity programmes organized by IAStructE open up an opportunity for you to interact with other professionals.
- ✓ Membership of IAStructE is also considered valuable by many engineering organization, institutions & authorities

How to Join IAStructE

To know about membership grades, eligibility requirement, membership fees and to fill the Membership Applications form online and to get the details of membership fees, visit the following link: <https://www.iastructe.co.in/membership-grades.php>
(Life membership options are also available as per the various age slab group)

- ✓ **Documents required to be submitted** : Self-attested copies of academic qualifications, experience certificates, detailed biodata (CV) highlighting the structural design experience, List of major projects handled with owner's name, detailed writeup (minimum 250 words) of two major Projects highlighting the design and analysis approach or the details of the R&D work in structural engineering, three supporter's recommendations.
(Please read carefully all the instructions given in the guidelines for filling of Form before submitting the application. All the fields of the form are mandatory & to be filled in properly.)

Processing of Application form

After receiving all the documents Membership Committee will scrutinize the application form and in order to know more about applicants, a virtual interaction with membership committee members shall also be scheduled.

For any further query or details IAStructE Secretariat can be contacted
Email: iastructe@gmail.com; Tel: 011-45794829

CALL FOR PAPERS FOR THE THEME BASED ISSUE OF SED JOURNAL

SED Editorial Board invites article contributions for the forthcoming issue of the Structural Engineering Digest on the following theme, which shall be published in e-book format. Details are as under:

April – June 2022 issue: Theme: Precast Segmental Bridges – State of The Art

Guest Editor- Mr. Alok Bhowmick, Immediate past President IAStructE

Sub Themes:

- ★ Planning & Conceptual Design
- ★ Construction
- ★ Bridge Deck Erection Issues
- ★ Detailed Design Considerations
- ★ Failure Case Studies
- ★ Rehabilitation Case Studies
- ★ Structural Health Monitoring & Maintenance Issues
- ★ Casting, Handling and Storing Precast Segments in Casting Yard

Interested professionals may send the full paper along with abstract, their photograph and brief resume by 15th June 2022 or at the earliest convenience.

July – September 2022 issue: Theme: Dams & Hydraulic Structures

Guest Editor- Dr. Shilpa Pal, GC member IAStructE

Interested professionals may send the abstract along with their photograph and brief resume by end of June 2022 and full paper by end of July 2022 or at the earliest convenience.

Articles are invited from i) Members of IAStructE; ii) Specialists in the field even though they are not members of IAStructE.

Interested authors/ contributors may kindly mail to iastructe@gmail.com regarding i) Broad guidelines on areas of coverage; ii) size of the article; iii) format of paper submission.

As per the laid down procedures all the papers shall be sent to the referee for review and the comments will be informed to the authors for incorporating the same. Papers shall be published after peer review & approval of SED editorial board.

ADVERTISEMENT TARIFFS***Structural Engineering Digest (being published in PDF format)***

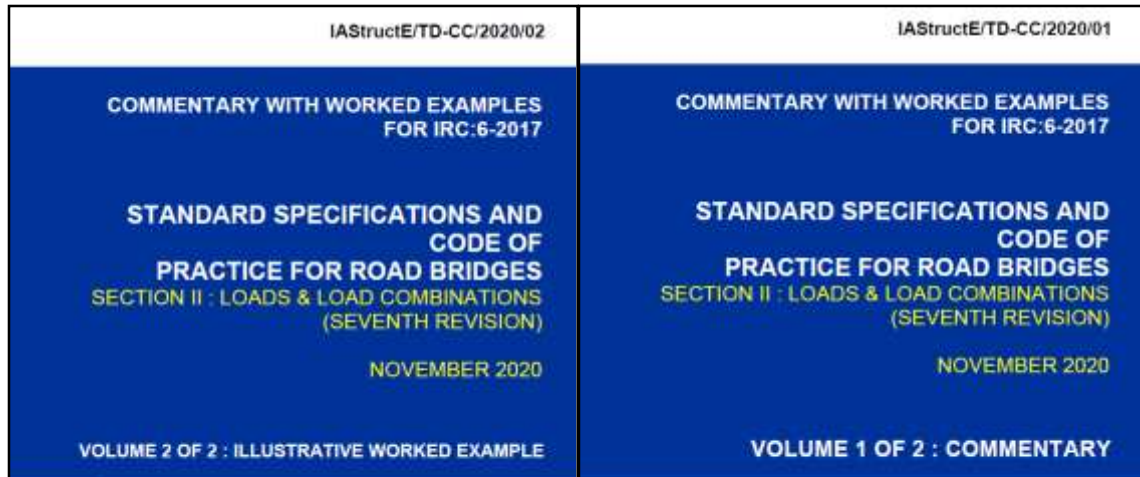
	<i>Rates Per issue</i>	<i>Discounted rate at 20% for 4 consecutive issues</i>	<i>Advertisement Size</i>
Full Page	Rs. 20,000/- + 18% GST	Rs 64,000/- + 18% GST	9.5 inch x 7 inch

IAStructE Monthly Newsletter (being published in PDF format)

- ★ **Half page:** Rs. 7,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking.
- ★ **Full page:** Rs. 10,000 per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking.

IAStructE PUBLICATIONS

Commentary with Worked Examples for IRC: 6-2017: It is a document having commentary with worked example on IRC: 6-2017 (The code for Loads & Load Combinations for design of Highway Bridges). This commentary is in two separate volumes. Volume-1 pertains to the Commentary while Volume-2 pertains to Illustrative Worked Examples. It has 48 worked examples demonstrating application of various codal clauses

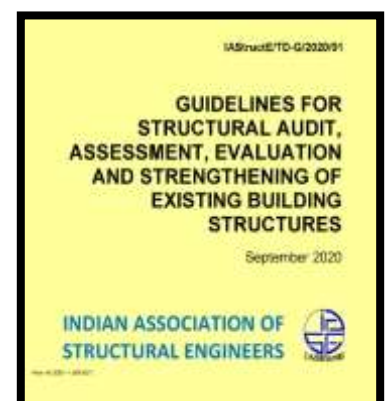


It's a priced document and hence not freely downloadable.

The documents are available for sale @ Rs 1200/- for Volume 1, and @ Rs 800/- for Volume II. Members of IAStructE and IRC will be entitled for a discount of 10% on this amount. Interested professionals who wish to purchase the commentary may kindly register with the following link or contact IAStructE Secretariat at iastructe@gmail.com:

Registration link: <http://iastructe.co.in/new-iastructe-publication.php>.

2. Guidelines for Structural Audit, Assessment, Evaluation and Strengthening of Existing buildings Structures: This document will guide structural engineers in proper assessment of building structures before issuing structural stability certificate. These guidelines may be used by IAStructE members, all other structural engineers, house owners, housing society welfare associations, clients and corporation engineers for understanding structural audit of the private and public building structures. The Guideline focuses on the urgent need to strengthen risk resilience of buildings from any kind of risks due to earthquake and other hazards. It is hoped that this document will be useful to ensure that all structures across the country remain safe from any kind of disaster risk.



The price of this e-document is Rs 200/-. Interested professionals who wish to obtain the soft version of the Guideline in pdf format, may register with the following link. Registration Link: <http://iastructe.co.in/guidelines-for-structural-audit.php>

3. Commentary on IS: 13920: The commentary is available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.

4. Commentary on IS: 1893 Part 1: The commentary is available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.

NEW MEMBERS**“Fellow” Grade**

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
F-516	Mr. R. Balamourogane	Chief Engineer/Managing Partner, M/S Lavinsree Engineering Design Consultant	Puducherry
F-517	Mr. Virendra Kumar Pareek	GGM/Design, NCRTC	New Delhi
F-518	Ms. Sangeeta Chachadi	General Manager & Team Leader (Structural Design) Sobha Developers Limited	Bangalore
F-519	Mr. Parthasarathy Sachithanantham	Associate Professor at Sri Lakshmi Ammal Engineering College	Tamil Nadu
F-520	Mr. Y. S. Dwivedi	Former Chief Engineer, MES	New Delhi
F-521	Mr. Mohammed Abdul Azeem	Senior Structural Engineer, KEO Intl. Consultants	Kuwait
F-522	Mr. Manish Negandhi	Group Director-BUROHAPPOLD Engineers Pvt. Ltd.	Mumbai
F-523	Mr. C. Y. Sivaji	Design Head at Larsen and Toubro Ltd.	Chennai

“Member” Grade

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
M-328	Mr. Vikas Kamboj	Sr. Structural Engineer, ADS Consulting Engineers,	New Delhi
M-329	Ms. Namrta Singh	Bridge/ Structure Design Engineer LEA Associates South Asia Pvt. Ltd	Noida

“Associate Member” Grade

<i>M/S No</i>	<i>Name</i>	<i>Designation, Organization</i>	<i>City</i>
AM-355	Mr. Syed Ethesham Ali	Senior Structural Engineer, Structural Engineer in Consulting Design Engineering Towers Specialist Division	Riyadh

“Student Member” Grade

One Student – Mahindra University, Hyderabad

One Student – IPS Academy, Institute of Engineering and Science, Indore

One Student – Jadavpur University, Kolkata

One Student - Teesside University, Middlesbrough, UK



About IAStructE

Indian Association of Structural Engineers (IAStructE) is the national apex body of structural engineers in India established with the objective to cater to the overall professional needs of structural engineers. The association has become the source of expertise and information concerning all issues that involve structural engineering and public safety within the built environment. It has no commercial aim or objective. IAStructE is purely a professional learned society with the prime objective of supporting and protecting the profession of structural engineering by upholding professional standards and acting as a mouthpiece for structural engineers. IAStructE endeavors to ensure that its members develop the necessary skill in structural engineering and work to the highest standards by maintaining a commitment to professional ethics and standards within structural engineering. IAStructE strives for continued technical excellence; advancing safety and innovation across the built environment. It also strives to make available to the Government, Public Sector and Private Sector - a credible source of well qualified and experienced Structural Engineers. A nationwide database of Structural Engineers has been compiled and is being constantly updated. IAStructE undertakes a broad range of technical activities which are aimed at information sharing and capacity building. The association provides opportunity for all the members to develop various skills in structural engineering and helps members to be at the forefront of structural engineering practice. Towards achievement of its aims and objectives, IAStructE is engaged in organizing the following: CPD Courses for Professionals at all levels Refresher Courses for Fresh Graduate Engineers, Student's orientation program, Seminars/Workshops, Technical Lectures by Experts, Technical Discussions on Contentious Issues. IAStructE is currently operating from four regional centers. These regional centres located in the Eastern, Western, Northern and Southern parts of the country effectively cater to the professional needs of members residing/practicing all over the country.

MEMBERSHIP BENEFITS

Membership of IAStructE is a sought after professional accreditation. Your membership of IAStructE can help you enhance your intellectual, academic, technical and professional status. It provides inter connectivity to the fellow professionals and the fraternity. Some of the benefits of membership is provided below:

- ★ Complimentary magazine subscription: All members (except Student Members) receive a complimentary subscription to the Institution's flagship publication 'Structural Engineering Digest' (SED). Published quarterly, each issue allows members to remain connected to the association through the provision of technical papers, Industry and Institution News, Featured articles, Professional Guidance on everyday matters affecting the practicing structural engineers.
- ★ Access to the professional documents
- ★ Access to all Technical Lectures, organized every month, at no charge
- ★ Access to Technical Discussions held regularly
- ★ Access to the association's library (Including e-library)
- ★ Discounts in attending Seminars and Workshops organized by the association
- ★ Full on-line access to the current volume and entire e-archive of journal "Structural Engineering Digest (SED)", Refresher Course Materials, Technical Lectures, E-Newsletters and other Technical Resources of the Association.
- ★ Opportunity to network with professional structural engineers of eminence and to meet potential employers in the association.
- ★ Opportunities for professional development

HOW TO BECOME A MEMBER?

Membership form and details are available at <https://www.iastructe.co.in/membership-grades.php>; For more information and other details contact the Indian Association of Structural Engineers Secretariat

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